***VERSION 3***

***Thank you for agreeing to participate in this questionnaire***. My name is (enumerator’s name) and I am working with Africa RISING Malawi. I would like to ask you some questions about your participation with Africa RISING, about what you can share about seed production, and if you grew legumes like soybean for seed.

This information will help us do a better job helping farmers like yourself to grow legumes for seed.  It will also help us improve our training with farmers on seed production.  Your answers will be kept anonymous and will not be shared with anyone outside this project, Africa RISING.

If you agree to participate, please answer the questions the best you can about your experiences growing legumes. This is not a test of what you know about growing legumes. Your answers will not affect your chances to work with Africa RISING or participate in future extension and training programs.  You may stop this interview at any time.

*Tear off and give below to farmer so if they wish to remove their information they can.*

**Block 1 Respondent Information HH**

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| **Date of visit:** | | **Enumerator’s Name:** | | | | | |
| **District:***1=Dedza 2= Ntcheu 3=Machinga* |  | **GPS coordinates** | **S.** |  | **E.** |  |  |
| **EPA (See codes):** |  | **Entered by:** | | | **Checked by:** | |  |
| **Village (See codes):** |  | **Sample group:**  *1=Trained Central2=Trained Southern*  *3= Untrained Central 4= Untrained South* | | | | |  | |
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*Enumerator, say “First, I will ask you some questions about your household.”*

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| **HH01:** What is the **name** of the **primary respondent**? |  | | |
| **HH02:***Are you the head of this household? (1=Yes; 2=No)*  ***IF yes, skip to HH05*** | | |  |
| **HH03:** What is your relationship to the household head? **(The head of household is my \_\_\_)?**  2=Spouse; 3=Son/Daughter; 4=Father/Mother; 5=Brother/Sister; 6=Grandparent; 99=Other \_\_\_\_\_\_\_\_\_ | | |  |
| **HH04:** What is the name of the head of your household? | |  | |
| **HH05:** What is the gender of the household head? (1=Male 2=Female) | | |  |
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| **HH06:** Over the past 12 months, how many months has the household head resided elsewhere? | | |  |

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| **HH07:** What is your age? |  |
| **HH08:** How many children aged 0-9 years are in this household? |  |
| **HH09:** How many children aged 10-15 years are in this household? |  |
| **HH10:** How many people aged 70 years or above are in this household? |  |

**Codes**

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|  | |  | ***Dedza EPA Code*** | | | | | | | | | |  | | | | | | | | | | |  |
|  | |  | *1=Linthipe* | | | | | | | | | | | | | | | | | | | | |  |
| ***Dedza Village codes***  *1=Mkuwazi*  *2=Mbidzi* | | | |  |  | | *23=Nkhanganya*  *24=Ungwe* | | | | | |  | | | | | |  | | |  |
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| ***Ntcheu EPA Code***  *3= Kandeu* | | | |  | |  | |  | | | | | | | | |  | | | |  |  |
| ***Ntcheu Village Codes***  *8=Katsese*  *17=Gonthi*  *18=Kampanje* | | | |  |  | |  | | *25=Kanjuzi*  *26=Zoyeana* | | | | | | | | |  | | | |  |  |
| ***Machinga EPA codes***  *12=Mtubwi* | | | *13=Nsanama* | | | | | | | *14=Nyambi* | | | | | | | | | | | | |
| ***Machinga Village codes***  *120=Tambula*  *121=Duwa*  *122=Mtonda* | | | | *123=Diga*  *130=Nwokiwa*  *131=Petekula petekula*  *133=Shaibu Petekula* | | | | | | |  | *137= Mkomola*  *141=Mkambili*  *143=Chapola* | |  |  | *612= Chipamba 615=Mtila* | | | | *616=Thimakera*  *617=Pahuwa*  *618=Muntuwa* | | |

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| *Please list the head of household and working-age adults (between ages 16 to 70) living in this household as well as sons/daughters living elsewhere.* | | | | | | | | | | | |
| ***List respondent first*** | ***ID01***  ***Name*** | ***ID02*** *Gender?*  *1=Male*  *2=Female* | ***ID03***  *Age?*  *(years)*  *Use table at end if they give you the year of birth* | ***ID04***  *Education level?*  ***(codes)*** | ***ID05****Past 12 months how many months did they* ***reside elsewhere****?* | ***ID06****Primary occupation past 12 months?*  ***(Codes)*** | ***ID07a*** *What share of time working on* ***household farms****?*  *%* | ***ID07b***  *What share of time working on* ***ganyu labor***  *%* | ***ID07c*** *What share of time working* ***on non-farm activities****?*  ***(include family care****)*  *%* | | ***Notes*** |
| ***Enumerator- These three columns must sum to 100%USE 10 STONES*** | | | |  |
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| ***ID04 Education Codes:***  *1=No schooling*  *2= Some primary*  *3=Completed primary*  *4=Some secondary*  *5=Completed some secondary*  *6=Post-secondary*  *7=Adult literacy* | ***ID06 Occupation Codes:***  *0=Not working*  *1=Working on your farm (not a relative’s)*  *2=Informal business* | *3=Casual farm (labour (someone else’s ) farm/ganyu labor)*  *4=Salary/wage labor (formal employment/business*  *5=Student*  *6=Ganyu other than farm*  *99=Other (specify in margin)* |

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| ***Block2. Farming Practices (referring to planting in 2016 and harvest in 2017)*** | | | | | | | | |
| ***FP01A-****How many fields did you grow crops inlast year including rented (2016-2017)?* | |  | | | | | | |
| ***FP01B-****-What is the total size of these gardens-****do not include*** *fallow but include rented in.*  *(refer to football pitch for size estimate)* | | ***# &UNIT*** | | | | | | |
| ***FP01C-****Were any of these fields left fallow?****1= Yes 2=No*** | |  | | | |  | | |
| ***FP02-****How much of your land do you rent from someone? (give size as said by farmer)*  *(refer to football pitch for size estimate)* | | ***# &UNIT*** | | | | | | |
| ***FP03-****Did you add any inputs to your soil?****1=Yes 2=No***  *If yes, use list****(see codes)***  ***IF no*** *inputs were added to the soil, enter* ***“none”*** | |  | |  |  | |  |  |
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| ***F0P4****-Which crops did you growin your fields?****(see codes)*** | |  | |  |  | |  |  |
|  | |  |  | |  |  |
| ***FP05****- Which crops did you grow in your dimba at any time,include irrigation schemes. (2016-17)?* ***(see codes)***  *.* | |  | |  |  | |  |  |
| ***FP06-****Which crops did you sell?Asfood or seed(that you grew in your garden).*  ***(See codes)*** | |  | |  |  | |  |  |
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| ***FP07:*** *With the money earned from selling your crops and/or seed what did you buy or pay for?* |  | | | | | | | |
| ***FP08: Who*** *did you sell your crops to?****(see codes)*** | |  | |  |  | |  |  |
| ***FP09a-****Have you received crop/seedadvise from an extension worker in the last year?*  ***If NO go to FP09c 1=Yes 2=No*** | |  | | | | | | |
| ***FP09b****- What advice did they offer?* | | | | | | | | |
| ***FP09c****-Has anyone else provided you crop/seed advice in the last year****? Who?***  ***(READ codes to farmers) If no go to ST01. 1=Yes 2=No*** | |  |  | | | | | |
| ***FP09d****- What advice did they offer?* | | | | | | | | |

**Code**

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| ***FP03-Input codes***  ***0=None***  *1=23:21 + 4s*  *2=Urea*  *3=CAN*  *4=D Compound*  *5=DAP*  *6=Animal manure*  *7=Compost*  *8=Crop residues/stover*  *9=Tobacco* | | | ***FP04& FP06- Crop codes:***  ***0=None***  *1=local maize*  *2-hyrbrid maize*  *3=tobacco*  *4=cotton*  *5=pigeonpea*  *6=groundnut*  *7=soya bean*  *8=common bean*  *9=velvet bean*  *10=cowpea*  ***11=legumes for seed*** | | *12=sorghum*  *13=cassava*  *14=sweet potato*  *15=Irish potato*  *16=millet*  *17=rice*  *18=pumpkin*  *19=fallow*  *20=Bambara nut*  *87=virgin land*  *88=Rented out*  *99=Other* |  | ***FP05-***  ***Dimba codes:***  *1=local maize*  *2=hybrid maize*  *17=rice*  *21=Cashew nut*  *22=Oranges*  *23=Banana*  *24=Pineapple*  *25=Guava*  *26=Avocado* | | *27=Watermelo 28=Mangoes*  *29=Lemons*  *30=Grapefruit*  *31=Other fruit Sspecify\_\_\_\_\_*  *40=Cabbage*  *41=Rape*  *42=Spinach*  *43=Chinese*  *Cabbage*  *44=Tomato* | *45=Onion*  *46=Okra*  *47=Eggplant*  *48=Local eggplant*  *49=Pumpkin*  *50=Pumpkin leaves* | *51=Chilies*  *52=Cauliflower*  *53=Carrots*  *54=Lettuce*  *55=Green beans*  *56=Green maize*  *57=Mustard*  *58 Other vegetable*  *Specify\_\_\_\_* | |
| **FP08 -Sold to?**  1=Other household  2=Small trader | 3=Large trader  4=Admarc  5=Africa RISING  99=Other\_\_\_\_\_\_\_\_\_ | | **FP09c Advisor?**  1= Africa RISING  2=Other farmers  3=NGOs eg World Vision  4=Radio | | | | 5=Extension leaflets  6=Village Head  7= Lead farmer  8-Africa RISING trained farmer  99=Other\_\_\_\_\_\_\_\_\_\_\_ | | | |

***Note all bolded words should be stressed when reading to the farmers by pausing as you read them.***

***Remind farmers this is NOT a test. We just want to know what information we need to review for this year’s training. They are helping us with this information.***

**Block 3: Participation in training for seed production (ST)**

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| **ST01:**Have you ever participated in any training of **how to grow legume seeds**? *1=Yes; 2=No*  **If no go to ST08** | | |  | | | | | |
| **ST02:**Who taught the training that you attended on seed production **most recently**?  **(see codes)** | | |  | | | | | |
| **ST03:**When was the most recent time you attended a training class on legume seed production? | | | **Month\_\_\_\_**  **Year\_\_\_\_\_\_** | | | | | |
| **ST04:** What information did you gain from the class on growing legumes for seed?  **(include allmentioned) ( see codes)** | | |  | |  | | |  |
|  | |  | | |  |
| **ST05:** What were the **two most important** things you learned about seed production in the class? (that helped you grow your legume seeds) **(see codes)** | | |  | | |  | | |
| **ST06:** What information was missing or confusing in the class?**(See codes)** |  |  |  | | |  | | |
| **ST07:** Did you share what you learned about seed production with others in your family or community? *1=Yes; 2=No*If yes, How many people?\_\_\_\_\_\_\_\_\_\_\_ | | | **Yes/no** | | | **#** | | |
| **ST08:** Have you ever spoken to someone about seed production (not a class but casually)?  **(see codes)** | | |  | | |  | | |
| **ST09:** What **new** information would you like to learn about in future Africa RISING trainings on seed-production? **(Limit list to 3)(see codes)** | | |  |  | | |  | |
| **ST10:** Is there anything you would like to say about the training class that you participated in?  **(fill in their response as THEY say it)** | | | | | | | | |

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| ***ST02& ST08***  *4=Ministry of agriculture and extension*  *5=Friend*  *6=Relative*  *7=Another farmer (don’t know well)* | *8=Africa RISING Farmer*  *10=Africa RISING team*  *11=Agro-dealer*  *12=ICRISAT/MIIST*  *13=Other\_\_\_\_\_\_\_\_\_\_\_* | |
| ***ST04 & ST05& ST06***  *1=Weeding*  *2=Distance between fields for planting seed*  *3=Not intercropping*  *4=Removal of off-types*  *5=Getting certified seed for planting*  *6=Preparing the field* | | *7=Planting*  *8=Drying*  *9=Pest management*  *10=Harvesting*  *11=Protecting and storing seed*  *12=Cleaning seed* | | *13=Finding a buyer*  *14=Checking seed for germination*  *15=Estimating weight of seed before selling*  *16=Pest Management*  *98=Other\_\_\_\_\_\_\_\_\_\_*  *99=Other\_\_\_\_\_\_\_\_\_\_\_* |
| ***ST09-Possible new learning topics***   1. *Learning the seed certification process* 2. *Where I can buy basic or certified seed to*   *produce seed next year?*   1. *How do I teach other farmers to grow seed.* 2. *How I can become a buyer and seller of seed.* 3. *The economic opportunities to start a seed*   *business* | | | 1. *How to manage insects and diseases on legumes* 2. *Building seed storage containers*   *9=Growing healthy legumes (agronomy)*  *10=How to grow pigeonpea for seed*  *11= Starting a seed cooperative for my community*  *99= Other\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* | |

**Block 4: General Seed Production (SP)**

***Explainthat you are going to read the sentence and ask the farmer their response: yes (true) or no (not true) to the following statements: THIS ALSO ASKS ABOUT YOUR OWN PRACTICES TO MANAGE SEED.***

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| **SP01aGrain** is for planting and harvesting for future crop production. 1=Yes 2=No |  |
| **SP01b:Seed** is grown for food for humans.  *1=Yes 2=No* |  |
| **SP01c**: **Seed** must be grown following rules about spacing between other fields of the same crop.*1=Yes; 2=No* |  |
| **SP01d**: When planting crops **to produce food**, it is OK to use seed from any source.  *1=Yes; 2=No* |  |
| **SP01e**: When planting crops **to produce seeds**, it is OK to use seed from any source.  *1=Yes; 2=No* |  |
| **SP02a**: Before storing seed, it should be air-dried on the ground.  *1=Yes; 2=No* |  |
| **SP02b**: It is OK to store several varieties of **seed** in a single container.  *1=Yes; 2=No* |  |
| **SP02c:** It is OK to store several varieties of **grain** in a single container.  *1=Yes; 2=No* |  |
| **SP02d:** Grain should be stored in airtight containers immediately after harvest  *1=Yes; 2=No* |  |
| **SP02e:** Before selling any type of seed, it should be stored dry and in an airtight bag.  *1=Yes; 2=No* |  |
| **SP02f:** Removing cracked and, split seeds, and debris (stones etc) is especially important for seeds before sale.*1=Yes; 2=No* |  |
| **SP02g:**Seeds need to be protected from pests and moisture after harvest.  *1=Yes; 2=No* |  |
| **SP02h:** Do you perform germination tests (place some seeds in water and count sprouts)?*1=Yes; 2=No* |  |
| **SP02i:**Doing a germination test is a good way to check if the seed will sprout.*1=Yes; 2=No* |  |
| **SP02j**: Do you remove seeds with cracks and insect holes before planting or selling?*1=Yes 2=No* |  |
| **SP02k**: Does inspecting seeds tell you whether they will grow well?*1=Yes; 2=No* |  |
| **SP03**: Sorting seed and good storage help maintain quality for grain and seed.*1=Yes; 2=No* |  |
| **SP03a.** It’s important to harvest seed only when it is fully mature. *1=Yes; 2=No* |  |
| **SP03b.** Do you place and store seed before drying in plastic sacs or storage containers to keep them free of insects? *1=Yes; 2=No* |  |
| **SP03c.** Do you keep seed off soil when drying? *1=Yes 2= No* |  |
| **SP03d.** Do you store seeds as long as possible to improve profit from sales? *1=Yes 2= No* |  |
| **SP03e.** Do you remove debris such as stones and misfit seeds from container before selling or using seed?*1=Yes 2= No* |  |
| **SP04:** Have you ever grown a crop for seed?  ***If answer NO go to GP10.*** *1=Yes 2=No* |  |
| **SP05:** How many years have you grown crops for seed?  *Number of years* |  |
| **SP06:**Which year did you **first** plant crops specifically **for seed**?  *Year planted* |  |
| **SP07a:** Have you **ever** grown **pigeon pea** for **seed**? *1=Yes 2= No* |  |
| **SP07b.** Have you ever grown **groundnut** for seed?  *1=Yes; 2=No* |  |
| **SP07c**. Have you ever grown **soyabeans** for seed? *1=Yes; 2=No* |  |
| **SP07d.** Have you ever grown **common beans** for seed?  *1=Yes; 2=No* |  |

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| **GP01:** Did you grow groundnut seeds for the 2017 harvest?  **If NO skip to GP10*1=Yes; 2=No*** | |  | | | |
| **GP02:**D*id you grow groundnut seed in a partnership or team?* ***(See Codes) With who? 1=Yes; 2=No*** | |  | | | |
| **GP03** Did you sell any of the groundnut **seed** that you grew this year? To whom?*1=Yes; 2=No* **If NO, skip to GP010(See Codes)** | |  | |  | |
| **GP04:** What was/will be done with the **portion** of groundnut seeds grown for the 2017 harvest that **you did not sell**? **(See Codes)** | |  | | | |
| **GP05:** How would you rate the quality of the groundnut you sold for seed?  *(1=High; 2=Medium; 3=Low)* | |  | | | |
| **GP06:** Why did you rate the groundnut seeds you this way?  ***(See codes)*** | |  |  | |  |
| **GP07:** To whom did you sell the groundnut seeds that you grew in the largest transaction?  Based on above question **(*See codes****)* | |  | | | |
| **GP08:** How much were you paid for groundnut seeds for your largest transaction?  ***(See codes for units)*** | 1. TOT MWK |  | | | |
| 1. Unit |  | | | |
| c. Qty |  | | | |
| **GP09:** What was the buyer going to do with the seed you sold at  the largest transaction?**(See Codes (2nd column)**  above price?  ***(See Codes)*** |  |  | | | |

**Block 5: Groundnut Seed Production (GP)**

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| ***GP02*** 1= Sibling  2= Parent  3= Friend  4= Spouse  5= Child  6=Other relative  99= Other\_\_ | ***GP04 & GP09*** **Use?** *0=Don’t*  *know 1=Resell**2=Grow**3=Eat**4=Sold all of it* | **GP06 Rating**1=Too many cracked pods/seeds2=Seeds were not clean3=They were removed from pods4=Pods were moldy5=Too many “pops” (Hollow shells) 6=Seeds were large  7=Seeds were very clean  8=Pods were well filled  9=Seed is pure  10=Well dried 99=Other\_\_\_\_\_\_ | ***GP03 & GP07*** **Buyer** *1=Other household**2=Small trader**3=Large trader**10=Africa RISING**11=Agro-dealer**12=ICRISAT/MIIST**99=Other\_\_\_\_\_\_* | ***GP08******Units****1=kg**2=25 kg sacks**3=50 kg sacks**4=20 L Bucket**5=5L pail**6=Ndiwo plate (about half a kg)* | ***GP08 Cont****7=Nsima plate*  *(about a kg)**8=18L pail**9=15L Bucket**10=10L Pail**11=Ox cart**12=Bunches**13=Heads/In total**99=Other\_\_\_\_\_\_* |

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| **GP10:** In order to grow groundnut seeds what steps should you include?  (**include all codes that apply) (See Codes)**  **All respond** |  |
| 1. What type of seed do you use to produce seed? |  |
| 1. Where do you get your groundnut seeds? |  |
| 1. What distance do you put between other groundnut fields to produce seeds? |  |
| 1. How do you store your groundnut seeds before planting? |  |
| 1. What do you need to do just prior to planting groundnut seed? |  |
| 1. How do you dry your seeds? |  |
| 1. Other\_\_\_\_\_\_\_ |  |

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| ***Codes for GP10a-g*** ***0****=Don’t know*  ***1****=Seeds from last year*  ***2****= Buy at market* | ***3****=Buy Certified seed or Basic seed*  ***4****=Buy from shop* | ***5****=5 meters*  ***6****=20 meters*  ***7****=Remove stones and bad seeds* | ***8****=Dry on the ground*  ***9****=Clean seed* | ***10****=Dry them on mats*  ***11****=Stored seeds in pods after dry* | ***12****=Store in sacs*  ***13****=Remove seeds from pods*  ***14****=Store in PICs* | ***15****=Sorting seed*  ***16****= Store in container*  ***99****= Other\_\_\_\_\_* |

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| **GP11a:** What were your 2 greatest challenges to **produce groundnut seed**.  ***Seed producers only Mark greatest challenges with X in column*** | | | | | |
| 1=Weeding |  | | 5=Planting |  | |
| 2=Not intercropping |  | | 6=Pest Management |  | |
| 3=Finding a field to grow |  | | 7=Accessing certified seed |  | |
| 4=Preparing the field |  | | 99=Other\_\_\_\_\_\_\_\_\_ |  | |
| **GP11b.** What were your 2 greatest challenges to **manage groundnut seedafter harvest**?  ***Seed Producers only Mark greatest challenges with X in column*** | | | | | |
| 1= Removing pods from plants | |  | 5=Keeping pods safe from rats, insects, etc | |  |
| 2=Keeping seed dry while stored | |  | 6=Preventing theft | |  |
| 3=Drying pods | |  | 98=Other | |  |
| 4=Removing seeds from pods | |  | 99=Other | |  |

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| **GP12:** What steps do you take to prepare groundnut for sale? Note all mentioned by farmer (**see codes)**  ***All*** | | | | | | |
| 1. What do you do before storing seeds? |  | |  |  |  |  |
| 1. How do you dry the seeds? |  | |  |  |  |  |
| 1. How do you store the seeds? |  | |  |  |  |  |
| 1. How do you check seeds for health? |  | |  |  |  |  |
| **GP13**: ***Seed producers ONLY***  Will you grow groundnut seeds again?   1. 1=Yes 2=No 2. Why? (explain your response) | a. | b. | | | | |

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| ***Codes for GP12*** *1=Clean & sort seed*  *2=Dry seeds*  *3=Store in PIC Bags* | *4=Store in Clay pots*  *5=Store in Sacs*  *6=Store in Plastic bags* | *7=Store seeds in granary*  *8= Store seeds in Metal silos* | *9=Visual inspection*  *10=Remove seed from pods* | *11=Harvest pods from plants 12=Germination test*  *99=Other\_\_\_\_\_\_\_\_\_* |

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| **Block 6: Soybean Seed Production (SO)** | | | | |
| **SO01:** Did you grow soybean seeds for the 2017 harvest? *1=Yes; 2=No*  **Seed Producers only**. **If NO, go to SO09** |  | | | |
| **SO02:** Did you sell any of the soybean seed that you grew? *1=Yes; 2=No*  **If NO, Go to SO09.** |  | | | |
| **SO03:** Did you grow a crop for seed with anyone else as a team or partnership?**1=Yes 2=No**  **Who? (See codes)** |  | | |  |
| **SO04**: To whom did you sell the soybean seeds that you grew (largest transaction)? ***(See codes)*** | | | | |
| **SO05:** How much were you paid for soybean seeds for that largest transaction?  ***(See codes for units)*** | | a. MWK |  | |
| b. Unit |  | |
| 1. Qty |  | |
| **SO06:** What was the buyer going to do with the seed you sold at the above price? ***(See codes)*** | |  | | |
| **SO07a**: Did you sell all of the soybean seeds that you grew for the 2017 harvest? *1=Yes; 2=No* **If YES, go to GP08a** | |  | | |
| **SO07b:** What will be done with the **portion** of soybean seeds grown for the 2017 harvest that **you did not sell**? ***(See codes****)* | |  | | |
| **SO08a:** How would you rate the quality of the soybean you sold for seed?  *(1=High; 2=Medium; 3=Low)* | |  | | |
| **SO08b:** Why did you rate the soybean seeds you sold this way?  ***(See codes)***  ***)*** | |  | | |
| **SO09: In order to grow soyabean seed share what you need to do. 1=Yes 2=No**  **All answer.** | |  | | |
| 1. **Plant only Certified or Basic Seed of the seed you want to grow** | |  | | |
| 1. **Keep soyabean seeds in pods while drying them** | |  | | |
| 1. **Dry seeds spread out on the ground to dry quickly** | |  | | |
| 1. **Remove soyabean seeds from pods right after harvest and dry them quickly** | |  | | |
| 1. **Plant good seed from your stored grain** | |  | | |
| 1. **Plant seed in a field that is 5 meters from other soyabean fields** | |  | | |

|  |  |  |
| --- | --- | --- |
| 1. **What do you think for the two most important practices to grow soyabean seed** 2. Plant good seed from your stored grain 3. Plant soybean seed that is Basic or Certified Seed 4. Grow the seed in a field that is 5 meters from other soybean fields 5. Plant multiple types of crops to grow the seed in field. 6. Harvest seed as soon as the pods form on the plant |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SO03**  1= Sibling  2= Parent  3= Friend  4= Spouse  5= Child  6=Other relative  99= Other\_\_ | ***Buyers* SO04**  *1=Other household*  *2=Small trader*  *3=Large trader*  *10=Africa RISING*  *11=Agro-dealer*  *12=ICRISAT/MIIST*  *13=Other\_\_\_\_\_\_\_\_\_\_\_* | ***SO5Units***  *1=kg*  *2=25 kg sacks*  *3=50 kg sacks*  *4=20 L Bucket*  *5=5L pail*  *6=Ndiwo plate*  *(about half a kg)*  *7=Nsima plate*  *(about a kg)*  *8=18L pail*  *9=15L Bucket* | *10=10L Pail*  *11=Ox cart*  *12=Bunches*  *13=Heads/In total*  *99=Other\_\_\_\_\_\_\_\_\_\_* | **SO06**  *1=Resell*  *2=Grow*  *3=Eat*  *4=Distribute to farmers*  *5=Don’t*  *know* | **SO07b**  *1=Grow them*  *2=Eat them*  *3=Sell them*  *later* | **SO08b**  1=Too many cracked seeds  2=Seeds were not clean (rocks/dirt/other seeds present)  3=They were left in the pods and molded  4=Seeds were not dry  5=Seeds were very small  99= Other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| ***SO10a:* What were the TWO**greatest challenges for you to **grow** soyabean seed?  ***(Soya seed growers only)*** | | |
| 1. Weeding on time |  |  |
| 1. Not plant multiple crops in the field (pure stand of soyabean only) |
| 1. Locating a field |
| 1. Preparing the soil to plant the seed |
| 1. Planting the seed in the field |
| 1. Pest management of soyabean |
| 1. Other\_\_\_\_\_\_\_\_ |
|  | | |
| **SO10b.** What are the two GREATEST challenges for you **after harvest** to prepare soyabean seed for sale?  ***(Soya seed growers only)*** | | |
| 1. Drying the soyabean seed |  |  |
| 1. Removing the pods from the plants |
| 1. Removing the seeds from the pods |
| 1. Cleaning and sorting the seed |
| 1. Finding a buyer |
| 1. Keeping seed safe until selling (from thieves and eating) |
| 1. Keeping out pests (rats, mice, insects) |
| 1. Keep seed dry during storage |
| 1. Other\_\_\_\_\_\_\_\_ |

|  |  |  |
| --- | --- | --- |
| **SO11a:** How did you store your seed until you sold it**? (see codes)** |  | |
| **SO11b.** Was this a good method to keep the seed quality**? 1=Yes 2=No** |  | |
| **S11c.** If no describe the problems you faced? **(see codes)** |  |  |
| **SO12**– To sell soybean for seed, do you need to\_\_\_\_\_\_\_\_\_?  *Enumerator: Read each question to farmer,* **1=Yes; 2=No** |  | |
| 1. Clean seed by removing foreign seed, dirt, and sticks etc. |  | |
| 1. Dry seeds on the ground in the shade |  | |
| 1. Store seeds in a container that has many holes for ventilation |  | |
| 1. Store soyabean seeds in their shells |  | |
| 1. Mix all of your soyabean seeds from all your fields to get an even germination |  | |
| **SO13a**: How are you storing groundnut seed that you will later plant?  **(Use codes in this question)**  *1=Sacks at home; 2=PIC bags; 3=Clay bins with lid; 4= Sacks in outside shed/bin; 99=Other\_\_\_\_\_\_\_* |  | |
| **SO13b**: How are you storing soybean grain for eating?  **(Use codes in this question)**  *1=Sacks at home; 2=PIC bags; 3=Clay bins with lid; 4= Sacks in outside shed/bin; 99=Other\_\_\_\_\_\_* |  | |
| **SO13c**. What are the **two** most important practices to do when drying and storing soybean seed?   1. Dry the seed on mats in the home or shed 2. Keep seed in pods until you sell it 3. Store in PIC bags or other storage container after grain is completely dry 4. Clean seed so that it is free of stones, dirt and other seeds   Mix all of your seed from the different fields to get an equal germination |  |  |
| **SO SO14**:: Will you grow soybean seeds again? Explain your answer  **Seed growersonly1=Yes; 2=No** |  | |

|  |  |
| --- | --- |
| ***SO11a: Storage***  *1=PIC bags*  *2=Cement container*  *3=Clay pots*  *4=Grain Sacs and sewn shut*  *5= Plastic sacs (jumbo****)***  *6=Don’t know* | ***SO11c -Problems***  ***1=****Water/wet*  *2=Rats/mice*  *3=Theft*  *4=Container broke open*  *5=Seed stored wet in containers* |

**\*\*\* END\*\*\***

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| **YEAR born** | **AGE** (from 2017) | **YEAR born** | **AGE** (from 2017) | **YEAR born** | | **AGE** (from 1/2017) |
| ***1940*** | 77 | ***1960*** | 57 | ***1980*** | | 37 |
| ***1941*** | 76 | ***1961*** | 56 | ***1981*** | | 36 |
| ***1942*** | 75 | ***1962*** | 55 | ***1982*** | | 35 |
| ***1943*** | 74 | ***1963*** | 54 | ***1983*** | | 34 |
| ***1944*** | 73 | ***1964*** | 53 | ***1984*** | | 33 |
| ***1945*** | 72 | ***1965*** | 52 | ***1985*** | | 32 |
| ***1946*** | 71 | ***1966*** | 51 | ***1986*** | | 31 |
| ***1947*** | 70 | ***1967*** | 50 | ***1987*** | | 30 |
| ***1948*** | 69 | ***1968*** | 49 | ***1988*** | | 29 |
| ***1949*** | 68 | ***1969*** | 48 | ***1989*** | | 28 |
| ***1950*** | 67 | ***1970*** | 47 | ***1990*** | | 27 |
| ***1951*** | 66 | ***1971*** | 46 | ***1991*** | | 26 |
| ***1952*** | 65 | ***1972*** | 45 | ***1992*** | | 25 |
| ***1953*** | 64 | ***1973*** | 44 | ***1993*** | | 24 |
| ***1954*** | 63 | ***1974*** | 43 | ***1994*** | | 23 |
| ***1955*** | 62 | ***1975*** | 42 | ***1995*** | | 22 |
| ***1956*** | 61 | ***1976*** | 41 | ***1996*** | | 21 |
| ***1957*** | 60 | ***1977*** | 40 | ***1997*** | | 20 |
| ***1958*** | 59 | ***1978*** | 39 | ***1998*** | | 19 |
| ***1959*** | 58 | ***1979*** | 38 | ***1999*** | 18 | |